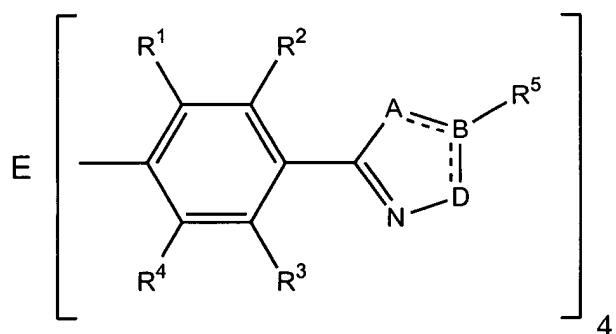


Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A compound of the following formula:



wherein

each of R¹-R⁴ is, independently, H, substituted or unsubstituted C₁₋₆ alkyl, OH, C₁₋₆ alkoxy, N(R⁶)(R⁷), in which each of R⁶ and R⁷ is, independently, H or substituted or unsubstituted C₁₋₆ alkyl, NO₂, CN, or CO₂R⁸, in which R⁸ is H or C₁₋₆ alkyl; and

wherein R⁵ is H, substituted or unsubstituted C₁₋₆ alkyl, substituted or unsubstituted C₂₋₆ alkenyl, substituted or unsubstituted C₂₋₆ alkynyl, ~~substituted or unsubstituted C₆₋₂₀ aryl or C₆₋₂₀ aryl substituted with OH, C₁₋₆ alkoxy, N(R²⁶)(R²⁷), substituted or unsubstituted alkylaryl in which the alkyl moiety is one or more substituted C₁₋₆ alkyl groups~~, substituted or unsubstituted C₄₋₂₀ heteroaryl, C₁₀₋₂₀ diarylaminoaryl, or is absent, or B and D, together with R⁵ and R¹¹, are substituted or unsubstituted aryl; in which each of R²⁶ and R²⁷ is, independently, H, substituted or unsubstituted C₁₋₆ alkyl, substituted or unsubstituted aryl, substituted or unsubstituted alkylaryl, NO₂, CN, or CO₂R²⁸, in which R²⁸ is H or C₁₋₆ alkyl;

wherein A is O, S, N(R⁹) in which R⁹ is absent, H, substituted or unsubstituted alkyl, or substituted or unsubstituted aryl, N=N, or N=C(R¹⁰) in which the C is adjacent to B and in which R¹⁰ is substituted or unsubstituted alkyl, or substituted or unsubstituted aryl;

wherein B is C or N;

wherein D is N, NH, or C(R¹¹) in which R¹¹ is substituted or unsubstituted alkyl, or substituted or unsubstituted aryl, or B and D, together with R⁵ and R¹¹ are substituted or unsubstituted aryl;

and wherein E is C or Si;

provided that when A is O and D is N, then B is C and the floating double bond is between B and D;

further provided that when A is N(R⁹) and R⁹ is absent, then B is N, R⁵ is absent, D is NH, and the floating double bond is between A and B;

further provided that when A is N=N, then B is C, D is N, and the floating double bond is between B and D;

further provided that when A is N=C(R¹⁰), then B is N, R⁵ is absent, D is C(R¹¹), and the floating double bond is between B and D;

further provided that when A is N(R⁹) and R⁹ is H, alkyl, or aryl, then B is C, D is C(R¹¹), and the floating double bond is between B and D;

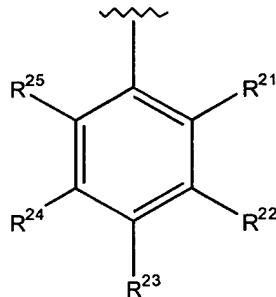
further provided that when A is O or S and D is C(R¹¹), then B is C and the floating double bond is between B and D.

2. (Original) The compound of claim 1, wherein A is O.

3. (Original) The compound of claim 2, wherein each of R¹-R⁴ is H.

4. (Currently Amended) The compound of claim 2, wherein R⁵ is substituted or unsubstituted aryl, or substituted or unsubstituted alkylaryl, unsubstituted C₆₋₂₀ aryl or C₆₋₂₀ aryl substituted with OH, C₁₋₆ alkoxy, N(R²⁶)(R²⁷), or alkylaryl in which the alkyl moiety is one or more substituted C₁₋₆ alkyl groups; in which each of R²⁶ and R²⁷ is, independently, H, substituted or unsubstituted C₁₋₆ alkyl, substituted or unsubstituted aryl, substituted or unsubstituted alkylaryl, NO₂, CN, or CO₂R²⁸, in which R²⁸ is H or C₁₋₆ alkyl.

5. (Original) The compound of claim 4, wherein R⁵ has the following formula:



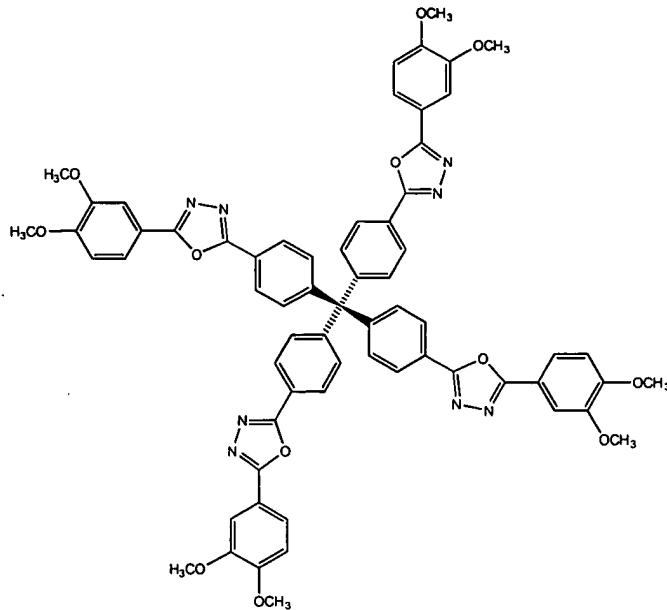
wherein each of R²¹-R²⁵ is, independently, H, substituted or unsubstituted C₁₋₆ alkyl, OH, C₁₋₆ alkoxy, N(R²⁶)(R²⁷), in which each of R²⁶ and R²⁷ is, independently, H, substituted or unsubstituted C₁₋₆ alkyl, substituted or unsubstituted aryl, substituted or unsubstituted alkylaryl, NO₂, CN, or CO₂R²⁸, in which R²⁸ is H or C₁₋₆ alkyl.

6. (Original) The compound of claim 5, wherein each of R²¹-R²⁵ is, independently, H or methoxy.

7. (Original) The compound of claim 5, wherein each of R²¹-R²⁵ is, independently, H or tert-butyl.

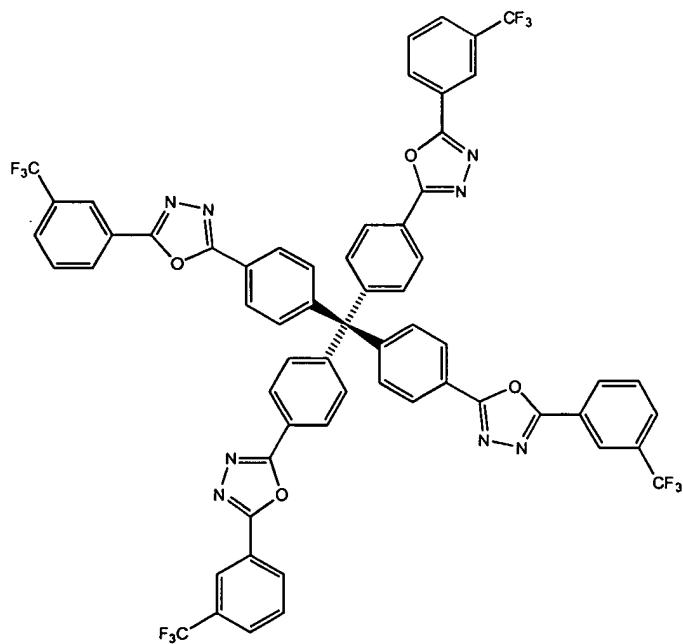
8. (Original) The compound of claim 5, wherein each of R²¹-R²⁵ is, independently, H or trifluoromethyl.

9. (Original) The compound of claim 1, wherein the compound has the following formula:



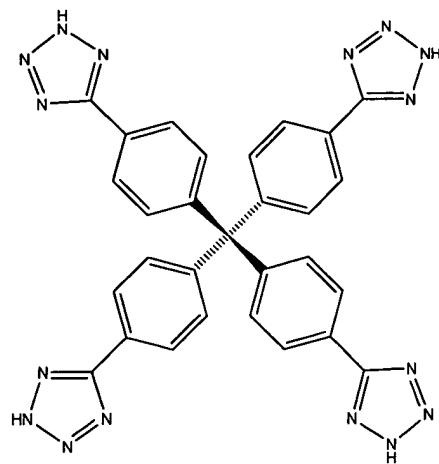
10. (Canceled)

11. (Original) The compound of claim 1, wherein the compound has the following formula:

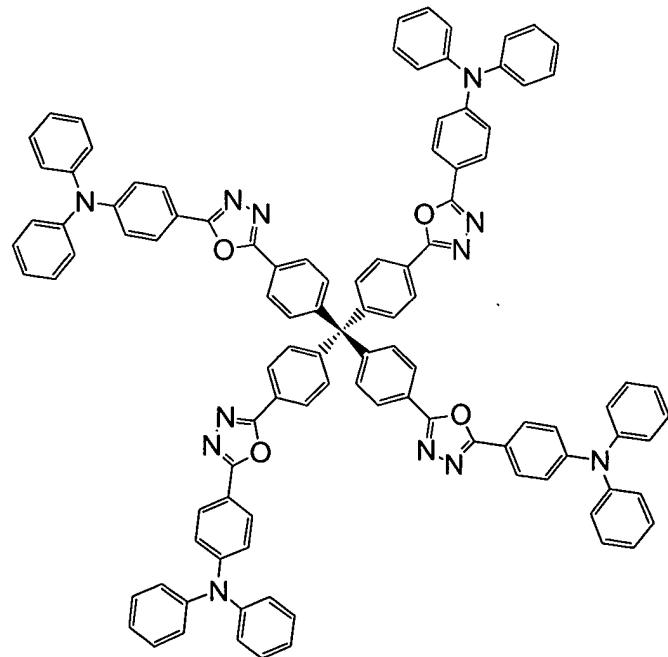


12. (Original) The compound of claim 1, wherein A is N(R⁹), in which R⁹ is absent.

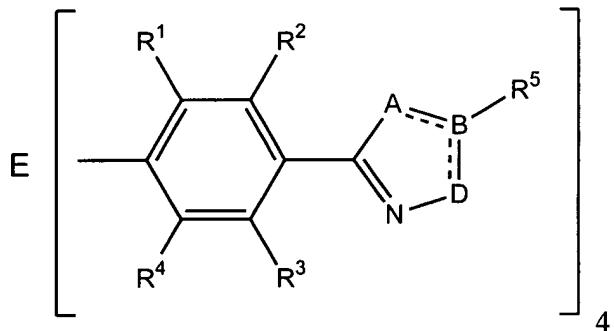
13. (Original) The compound of claim 12, wherein the compound has the following formula:



14. (Original) The compound of claim 1, wherein the compound has the following formula:



15. (Currently Amended) An electroluminescence device comprising a substrate, a hole transporting layer, and an emitting layer, and an electron transporting layer, wherein at least one of the hole transporting layer, the emitting layer, and the electron transporting layer comprises a compound having the following formula:



wherein

each of R¹-R⁴ is, independently, H, substituted or unsubstituted C₁₋₆ alkyl, OH, C₁₋₆ alkoxy, N(R⁶)(R⁷), in which each of R⁶ and R⁷ is, independently, H or substituted or unsubstituted C₁₋₆ alkyl, NO₂, CN, or CO₂R⁸, in which R⁸ is H or C₁₋₆ alkyl; and

wherein R⁵ is H, substituted or unsubstituted C₁₋₆ alkyl, substituted or unsubstituted C₂₋₆ alkenyl, substituted or unsubstituted C₂₋₆ alkynyl, substituted or unsubstituted C₆₋₂₀ aryl or C₆₋₂₀ aryl substituted with OH, C₁₋₆ alkoxy, N(R²⁶)(R²⁷), substituted or unsubstituted alkylaryl in which the alkyl moiety is one or more substituted C₁₋₆ alkyl groups, substituted or unsubstituted C₄₋₂₀ heteroaryl, C₁₀₋₂₀ diarylaminoaryl, or is absent, or B and D, together with R⁵ and R¹¹, are substituted or unsubstituted aryl; in which each of R²⁶ and R²⁷ is, independently, H, substituted or unsubstituted C₁₋₆ alkyl, substituted or unsubstituted aryl, substituted or unsubstituted alkylaryl, NO₂, CN, or CO₂R²⁸, in which R²⁸ is H or C₁₋₆ alkyl;

wherein A is O, S, N(R⁹) in which R⁹ is absent, H, substituted or unsubstituted alkyl, or substituted or unsubstituted aryl, N=N, or N=C(R¹⁰) in which the C is adjacent to B and in which R¹⁰ is substituted or unsubstituted alkyl, or substituted or unsubstituted aryl;

wherein B is C or N;

wherein D is N, NH, or C(R¹¹) in which R¹¹ is substituted or unsubstituted alkyl, or substituted or unsubstituted aryl, or B and D, together with R⁵ and R¹¹ are substituted or unsubstituted aryl;

and wherein E is C or Si;

provided that when A is O and D is N, then B is C and the floating double bond is between B and D;

further provided that when A is N(R⁹) and R⁹ is absent, then B is N, R⁵ is absent, D is NH, and the floating double bond is between A and B;

further provided that when A is N=N, then B is C, D is N, and the floating double bond is between B and D;

further provided that when A is N=C(R¹⁰), then B is N, R⁵ is absent, D is C(R¹¹), and the floating double bond is between B and D;

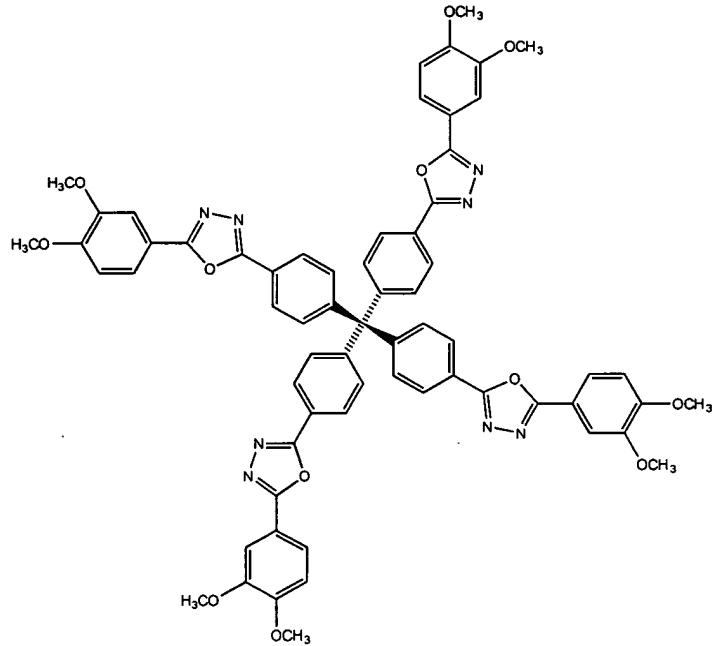
further provided that when A is N(R⁹) and R⁹ is H, alkyl, or aryl, then B is C, D is C(R¹¹), and the floating double bond is between B and D;

further provided that when A is O or S and D is C(R¹¹), then B is C and the floating double bond is between B and D.

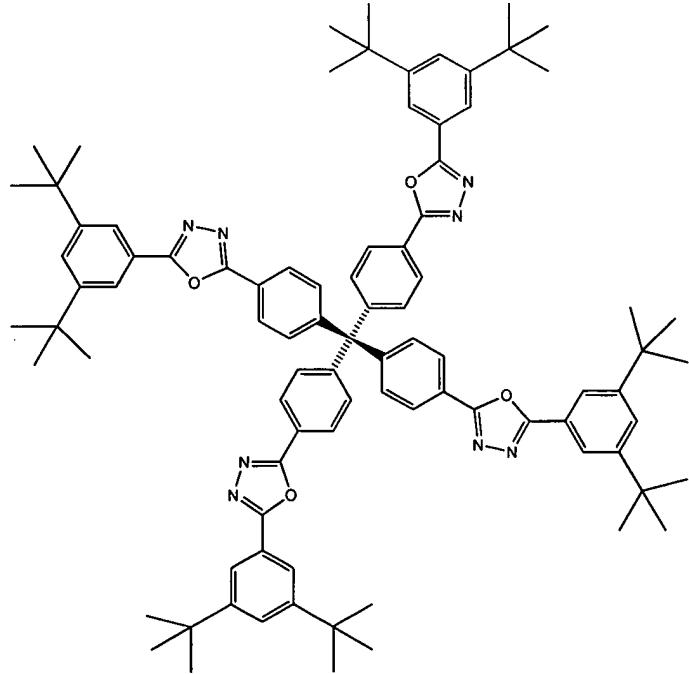
16. (Original) The device of claim 15, wherein A is O, B is C, and D is N.

17. (Original) The device of claim 16, wherein each of R¹-R⁴ is H.

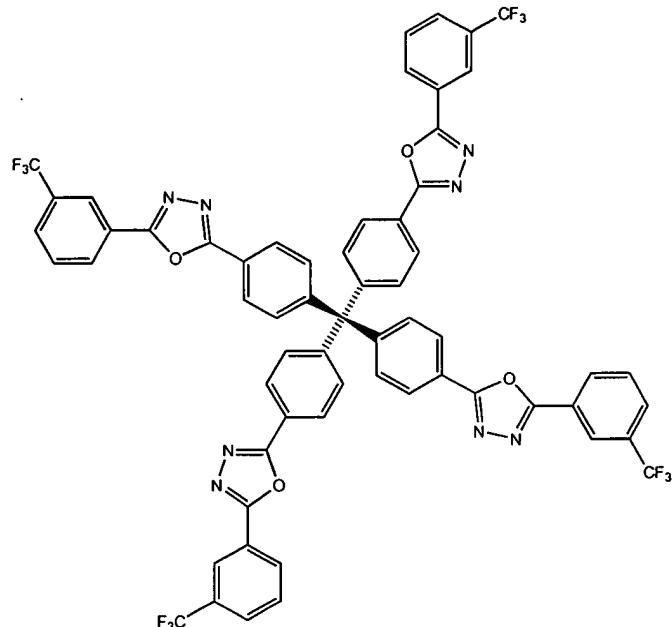
18. (Original) The device of claim 15, wherein the compound has the following formula:



19. (Original) The device of claim 15, wherein the compound has the following formula:



20. (Original) The device of claim 15, wherein the compound has the following formula:



21. (Original) The device of claim 14, wherein the compound has the following formula:

